## CLAIM AMENDMENTS

- 1-13 (Canceled)
- 14. (New) An installation for providing a concentrate burner, that is adapted on top of a reaction shaft of a suspension smelting furnace, with continuous and constant feed of fine-grained matter, comprising
- a bin having an inlet and an outlet for the fine-grained matter;
- a feed control unit for providing the feed of the fine-grained matter with accurately controlled feed rate; and
- a pneumatic conveyor adapted to transport the fine-grained matter up to the top level of the suspension smelting furnace;

wherein,

the outlet of the bin for the fine-grained matter locates essentially at a lower level than the top of the reaction shaft;

the feed control unit is adapted to receive the fine-grained matter from the outlet of the bin and to provide the pneumatic conveyor with the feed of the fine-grained matter;

the pneumatic conveyor is adapted to provide the concentrate burner with a feed rate that equals with the feed rate provided by the feed control unit; and

the concentrate burner is a sleeve type burner or a diffusion type burner.

- 15. (New) The installation of claim 14, wherein the fine-grained matter comprises metal concentrate.
- 16. (New) The installation of claim 14, wherein the fine-grained matter comprises metal concentrate and fluxing agent.
- 17. (New) The installation of claim 14, wherein the fine-grained matter comprises metal concentrate, fluxing agent and flue dust.

- 18. (New) The installation of claim 14, comprising a first bin for a dried mixture of metal concentrate and fluxing agent, a second bin for flue dust, a first feed rate controller for the mixture of metal concentrate and fluxing agent and a second feed rate controller for the flue dust.
- 19. (New) The installation of claim 14, wherein the pneumatic conveyor is a dilute-phase pneumatic conveyor.

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- 20. (New) The installation of claim 14, wherein the pneumatic conveyor is a dense-phase pneumatic conveyor.
- 21. (New) The installation of claim 14, wherein the pneumatic conveyor is an air-lift type pneumatic conveyor and the air-lift is provided with an expansion vessel-adapted to feed the particulate matter into the burner of the suspension smelting furnace via an air-lock feeder and an air-slide conveyor.
- 22. (New) The installation of claim 14, wherein the feed control unit is a loss-in-weight controller and the pneumatic conveyor is a dilute-phase pneumatic conveyor.
- 23. The installation of claim 14, wherein the feed control unit is a loss-in-weight controller and the pneumatic conveyor is an air-lift type pneumatic conveyor.
- 24. (New) A method of providing a concentrate burner, such as a sleeve type burner or a diffusion type burner, that is adapted on top of a reaction shaft of a suspension smelting furnace, with uninterrupted and controlled feed of fine-grained matter comprising metal concentrate, wherein the method comprises steps of

feeding fine-grained matter in a bin having an outlet at a lower level than the burner;

forming and sustaining in the bin a storage of the fine-grained matter corresponding with at least one hours feed of the suspension smelting furnace;

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feeding fine-grained matter in a feed rate controller unit that provides the pneumatic controller with an uninterrupted and controlled feed of the fine-grained matter; and

conveying the matter with the pneumatic conveyor in .the burner of the suspension smelting furnace.

- 25. (New) The method of claim 24, wherein the feed rate controller operates according to the principle of loss-in weight type controller.
- 26. (New) The method of claim 24, further comprising a step of feeding flue dust into the pneumatic conveyor.